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TO:

FROM: LYNN S. LUDLOW, IRRIGATION SPECIALIST
ELECTRIC FARMING STAFF
ELECTRIC OPERATIONS AND LOANS DIVISION

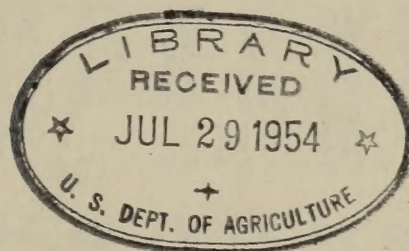
SUBJECT: IRRIGATION ANALYSIS
1953 OPERATING SEASON

THE ATTACHED IS AN ANALYSIS OF ELECTRIC PUMP IRRIGATION DURING THE 1953 SEASON. IT DOES NOT INCLUDE ALL BORROWERS WHICH SERVED PUMP IRRIGATION INSTALLATIONS BUT THOSE IN WHICH THE PUMP IRRIGATION LOAD PLAYED AN IMPORTANT PART IN THEIR OPERATION.

THE FIRST LINE INDICATES BORROWER AND DATA AS TAKEN FROM LATEST FEASIBILITY STUDY. THE SECOND LINE FOR EACH BORROWER PROVIDES DATA TAKEN FROM THE 1953 OPERATING REPORTS SUBMITTED TO THE RURAL ELECTRIFICATION ADMINISTRATION. THE LAST COLUMN ON THE SHEET SHOWS TOTAL LOAN FUNDS AND THE PORTION OF LOAN FUNDS WHICH WERE FOR GENERATION OR TRANSMISSION FACILITIES.

DUE TO THE EXTREME DROUGHT CONDITIONS IN MANY AREAS OF THE UNITED STATES DURING 1953, THE REVENUE AND USE OF IRRIGATION PUMPS EXCEEDED WHAT CAN BE ANTICIPATED UNDER NORMAL WEATHER CONDITIONS.

ATTACHMENT



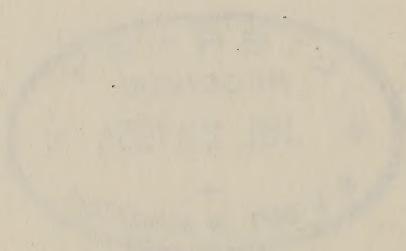
THE UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

MEMORANDUM FOR THE DIRECTOR
SUBJECT: [Illegible]

THE ATTACHED IS AN ANALYSIS OF THE INFORMATION RECEIVED FROM THE [Illegible] DURING THE [Illegible] PERIOD. IT SHOWS THAT [Illegible] AND [Illegible] WERE THE ONLY INDIVIDUALS WHOSE NAMES WERE MENTIONED IN THE [Illegible] REPORT. THE [Illegible] OF THE [Illegible] IS [Illegible].

THE FIRST LINE OF THE [Illegible] REPORT IS [Illegible]. THE SECOND LINE IS [Illegible]. THE THIRD LINE IS [Illegible]. THE FOURTH LINE IS [Illegible]. THE FIFTH LINE IS [Illegible]. THE SIXTH LINE IS [Illegible]. THE SEVENTH LINE IS [Illegible]. THE EIGHTH LINE IS [Illegible]. THE NINTH LINE IS [Illegible]. THE TENTH LINE IS [Illegible].

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PUMP IRRIGATION ANALYSIS FOR 1953

APPROVED DATE LATEST LOAN	COOPERATIVE DESIGNATION	NO. INSTALLATIONS	TOTAL KWH IRRIGATION	TOTAL KWH SYSTEM	% OF TOTAL USED BY IRRIGATION	REVENUE FROM IRRIGATION	TOTAL REVENUE	% TOTAL FROM IRRIGATION	TOTAL LOANS
7-20-53	ARIZ. 13 NAVAJO FS 1953 SEASON	25	300,000	13,383,300	2.2	\$ 8,775	\$438,600	2.0	3,248,000
		24	250,659	8,410,319	3.0	11,006	291,985	3.8	518,300
4-7-52	ARIZ. 14 COCHISE FS 1953 SEASON	500	18,000,000	31,887,817	56.4	315,000	747,851	42.1	4,637,820
		564	20,022,076	33,413,651	59.9	359,625	753,124	47.8	2,445,088
12-30-49	ARIZ. 17 GRAHAM 1953 SEASON	202	4,464,200	16,262,200	27.5	111,403	379,624	29.4	3,129,114
		370	10,999,984	20,222,548	54.4	200,328	444,124	45.1	1,897,000
1-21-53	ARIZ. 20 PIMA 1953 SEASON	96	43,200,000	50,919,900	84.8	848,800	853,755	75.9	4,318,411
		81	27,335,734	33,669,301	81.2	401,677	553,639	72.6	1,287,012
11-15-51	ARIZ. 21 YAVAPAI 1953 SEASON	24	432,000	1,616,700	26.7	9,120	58,210	15.7	550,752
		22	171,109	1,062,585	16.1	4,014	40,014	10.0	
11-27-51	ARIZ. 22 KINGMAN 1953 SEASON	40	600,000	5,295,612	11.3	17,904	151,506	11.8	777,000
		33	538,398	2,023,970	26.6	16,189	76,013	21.3	
5-6-52	ARIZ. 23 GREENLEE 1953 SEASON	75	1,800,000	2,939,700	61.2	43,500	101,275	43.0	750,000
		65	1,601,647	3,348,395	47.8	27,363	116,738	23.4	283,000
3-11-53	N. M. 4 EDDY 1953 SEASON	769	46,140,000	54,013,340	85.4	640,193	860,614	74.4	3,801,000
		672	36,365,968	42,797,639	85.0	515,424	713,290	72.3	43,000
5-25-53	N. M. 8 ROOSEVELT 1953 SEASON	607	7,284,000	14,569,207	50.0	158,791	378,198	42.0	2,762,000
		625	9,215,358	15,461,091	59.6	180,983	387,131	46.1	167,500
7-17-53	N. M. 12 OTERO 1953 SEASON	88	2,901,550	10,757,030	27.0	69,932	403,644	17.3	2,728,183
		59	1,710,276	5,945,972	28.8	31,521	199,043	15.8	179,183
5-20-53	N. M. 21 LINCOLN 1953 SEASON	81	4,237,000	13,872,190	30.5	96,900	619,056	15.7	4,283,500
		75	2,190,661	7,703,255	28.4	40,717	340,526	12.0	972,400

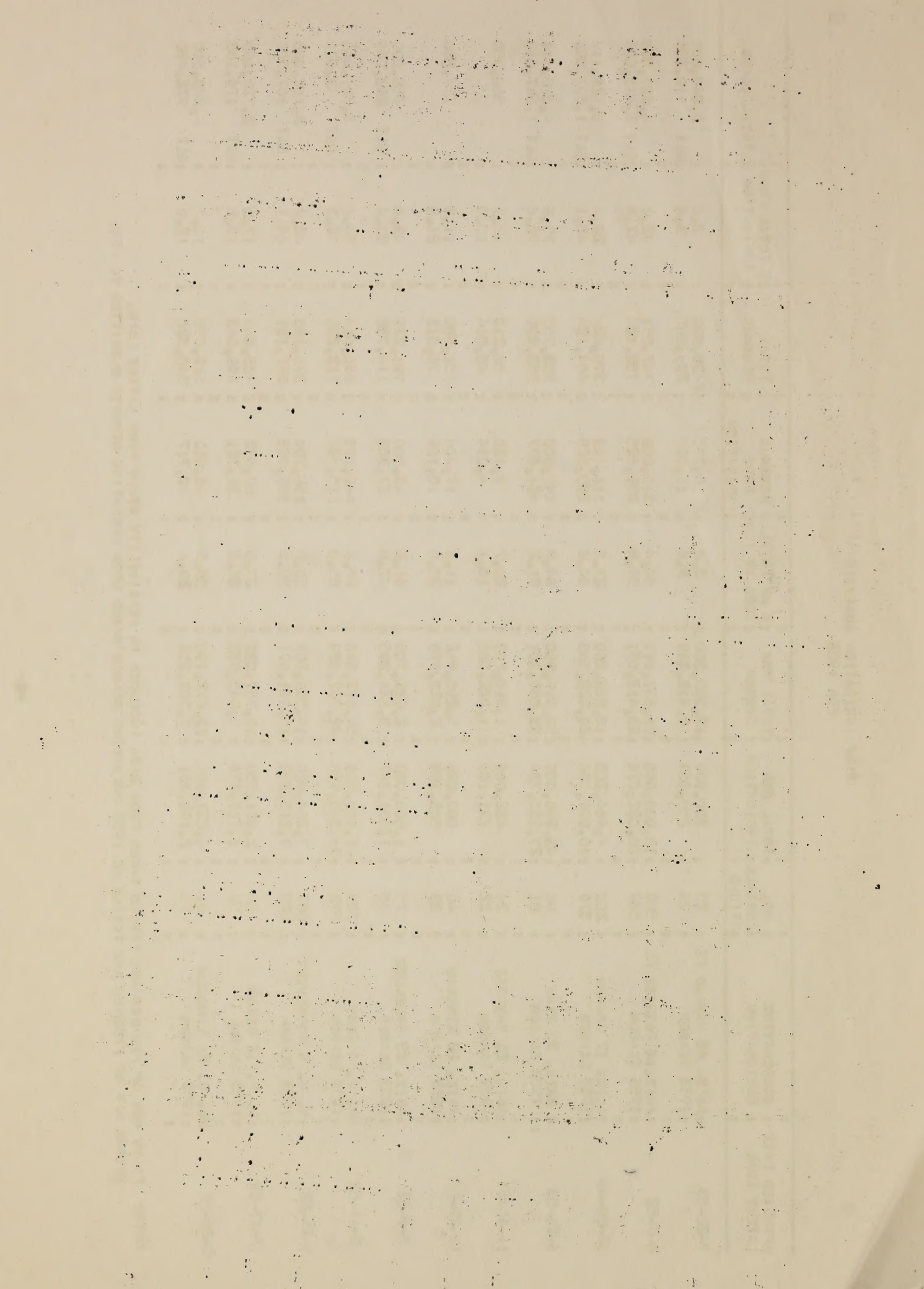
NOTE: FIRST ROW OF FIGURES ARE TOTALS TAKEN FROM DATA INCLUDED IN FEASIBILITY STUDY FROM LATEST LOAN.
SECOND ROW OF FIGURES ARE TOTALS OF 1953 OPERATING SEASON BASED UPON OPERATING REPORTS SUBMITTED TO REA.

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PUMP IRRIGATION ANALYSIS FOR 1953

APPROVED DATE LATEST LOAN	COOPERATIVE DESIGNATION	NO. INSTALLATIONS	TOTAL KWH IRRIGATION	TOTAL KWH SYSTEM	% OF TOTAL USED BY IRRIGATION	REVENUE FROM IRRIGATION	TOTAL REVENUE	% TOTAL FROM IRRIGATION	TOTAL LOANS
7-20-53	ARIZ. 13 NAVAJO FS 1953 SEASON	25	300,000	13,383,300	2.2	\$ 8,775	\$438,600	2.0	3,248,000
		24	250,659	8,410,319	3.0	11,006	291,985	3.8	518,300
4-7-52	ARIZ. 14 COCHISE FS 1953 SEASON	500	18,000,000	31,887,817	56.4	315,000	747,851	42.1	4,637,820
		564	20,022,076	33,413,651	59.9	359,625	753,124	47.8	2,445,088
12-30-49	ARIZ. 17 GRAHAM 1953 SEASON	202	4,464,200	16,262,200	27.5	111,403	379,624	29.4	3,129,114
		370	10,999,984	20,222,548	54.4	200,328	444,124	45.1	1,897,000
1-21-53	ARIZ. 20 PIMA 1953 SEASON	96	43,200,000	50,919,900	84.8	648,800	853,755	75.9	4,318,411
		81	27,335,734	33,669,301	81.2	401,677	553,639	72.6	1,287,012
11-15-51	ARIZ. 21 YAVAPAI 1953 SEASON	24	432,000	1,616,700	26.7	9,120	58,210	15.7	550,752
		22	171,109	1,062,585	16.1	4,014	40,014	10.0	
11-27-51	ARIZ. 22 KINGMAN 1953 SEASON	40	600,000	5,295,612	11.3	17,904	151,506	11.8	777,000
		33	538,398	2,023,970	26.6	16,189	76,013	21.3	
5-6-52	ARIZ. 23 GREENLEE 1953 SEASON	75	1,800,000	2,939,700	61.2	43,500	101,275	43.0	750,000
		65	1,601,647	3,348,395	47.8	27,363	116,738	23.4	283,000
3-11-53	N. M. 4 EDDY 1953 SEASON	769	46,140,000	54,013,340	85.4	640,193	860,614	74.4	3,801,000
		672	36,365,968	42,797,639	85.0	515,424	713,290	72.3	43,000
5-25-53	N. M. 8 ROOSEVELT 1953 SEASON	607	7,284,000	14,569,207	50.0	158,791	378,198	42.0	2,762,000
		625	9,215,358	15,461,091	59.6	180,983	387,131	46.1	167,500
7-17-53	N. M. 12 OTERO 1953 SEASON	88	2,901,550	10,757,030	27.0	69,932	403,644	17.3	2,728,183
		59	1,710,276	5,945,972	28.8	31,521	199,043	15.8	179,183
5-20-53	N. M. 21 LINCOLN 1953 SEASON	81	4,237,000	13,872,190	30.5	96,900	619,056	15.7	4,283,500
		75	2,190,661	7,703,255	28.4	40,717	340,526	12.0	972,400

NOTE: FIRST ROW OF FIGURES ARE TOTALS TAKEN FROM DATA INCLUDED IN FEASIBILITY STUDY FROM LATEST LOAN.
SECOND ROW OF FIGURES ARE TOTALS OF 1953 OPERATING SEASON BASED UPON OPERATING REPORTS SUBMITTED TO REA.



APPROVED DATE: LATEST LOAN	COOPERATIVE DESIGNATION	NO. INSTALLATIONS	TOTAL KWH IRRIGATION	TOTAL KWH SYSTEM	% OF TOTAL USED BY IRRIGATION	REVENUE FROM IRRIGATION	TOTAL REVENUE	% TOTAL FROM IRRIGATION	TOTAL LOANS
12-22-52	TEXAS 145 DALLAM 1953 SEASON	70	2,800,000	12,444,400	22.5	49,000	357,127	13.7	2,665,000
		60	1,977,118	4,649,450	42.5	34,075	188,076	18.1	304,928
11-3-53	ARK. 11 JACKSON 1953 SEASON	86	3,870,000	11,451,120	33.8	68,800	323,297	21.3	1,865,000
		89	3,775,055	9,922,236	38.0	60,136	263,862	22.8	
4-18-52	ARK. 15 WOODRUFF 1953 SEASON	185	NO IRRIGATION	26,095,372	28.9	140,345	802,740	17.5	
5-8-53	ARK. 30 ARKANSAS 1953 SEASON	90	4,950,000	9,066,156	54.6	95,623	280,045	34.1	1,743,000
		87	3,186,491	6,388,306	50.0	50,356	208,208	24.2	31,500
6-9-52	COLO. 14 ALAMOSA 1953 SEASON	362	10,860,000	17,682,000	61.4	304,080	548,375	55.5	3,284,000
		451	7,851,023	13,357,082	58.8	225,912	431,974	52.3	795,000
8-11-52	COLO. 15 MORGAN 1953 SEASON	969	33,915,000	52,205,063	65.0	494,791	880,341	56.2	3,896,000
		922	25,929,989	38,963,369	66.5	380,656	703,771	54.1	265,000
10-5-51	COLO. 16 JEFFERSON 1953 SEASON	61	1,921,500	17,243,160	11.1	33,901	554,734	6.1	4,038,000
		100	970,731	13,927,429	7.0	27,566	510,540	5.4	292,400
6-27-52	COLO. 17 PROWERS 1953 SEASON	180	1,350,000	34,442,100	3.9	28,350	1,102,907	2.6	8,532,810
		266	2,382,567	15,455,257	15.4	56,757	668,974	8.5	1,260,464
7-2-53	COLO. 22 BOULDER 1953 SEASON	260	2,236,000	13,740,740	16.3	58,292	382,181	15.3	2,237,000
		249	2,629,546	11,943,954	22.0	58,346	324,680	18.0	175,000
5-16-52	COLO. 29 PHILLIPS 1953 SEASON	57	684,000	12,157,860	5.6	26,950	492,202	5.5	3,733,476
		85	799,111	11,402,923	7.0	24,081	478,695	5.0	104,100
6-3-52	COLO. 31 LARIMER 1953 SEASON	209	2,508,000	15,802,300	15.9	48,070	393,249	12.2	2,012,500
		204	1,691,315	14,066,470	12.0	38,341	366,869	10.5	202,000
7-2-53	COLO. 37 DOUGLAS 1953 SEASON	124	1,056,108	19,415,889	5.4	25,844	688,071	3.8	4,850,500
		130	1,649,303	11,884,450	13.9	38,671	470,970	8.2	307,780
11-2-51	KANS. 34 BARTON 1953 SEASON	60	2,160,000	27,828,000	7.7	37,200	805,027	4.6	7,918,071
		66	875,005	18,848,483	4.6	24,563	541,466	4.5	1,771,650
1-15-53	KANS. 44 GRANT 1953 SEASON	12	264,000	11,657,120	2.3	6,720	397,916	1.7	3,940,400
		12	432,530	9,232,871	4.7	9,338	361,435	2.6	1,198,400
5-16-49	KANS. 51 WICHITA 1953 SEASON	171	4,630,000	15,549,500	29.8	79,335	593,501	13.4	5,400,000
		159	3,965,338	22,126,067	17.9	85,270	683,023	12.5	2,875,000

APPROVED DATE LATEST LOAN	COOPERATIVE DESIGNATION	NO. INSTALL- ATIONS	TOTAL KWH IRRIGATION	TOTAL KWH SYSTEM	% OF TOTAL USED BY IRRIGATION	REVENUE FROM IRRIGATION	TOTAL REVENUE	% TOTAL FROM IRRIGATION	TOTAL LOANS
3-26-51	ORE, 24 TILLAMOOK 1953 SEASON	29 43	218,500 227,403	6,658,164 7,072,237	3.3 3.2	2,719 2,412	99,492 98,738	2.7 2.4	425,000
11-3-53	ORE, 26 WASCO 1953 SEASON	56 47	2,473,520 1,874,218	23,419,420 17,295,041	10.6 10.8	20,837 11,725	361,604 256,140	5.8 4.6	2,340,000 1,71,500 G&T
6-11-51	ORE, 29 MORROW 1953 SEASON	5 31	361,800 651,470	7,436,400 6,131,359	4.9 10.6	5,297 8,737	165,952 121,459	3.2 7.2	1,665,000 200,000 G&T
11-7-51	ORE, 37 WHEELER 1953 SEASON	35 5	630,000 61,077	6,163,750 2,170,974	10.2 2.8	6,300 828	173,116 72,822	3.6 1.1	2,155,000 741,180 G&T
7-1-52	WASH, 8 BENTON 1953 SEASON	230 154	7,176,000 4,711,289	40,586,640 25,208,685	17.7 18.7	94,116 45,604	547,538 374,139	17.2 12.2	3,894,500 325,600 G&T
9-2-53	WASH, 18 SPOKANE 1953 SEASON	210 :	4,440,000 NO BREAKDOWN OF IRRIGATION	60,512,860 :	7.3 :	53,676 :	820,593 :	6.5 :	4,418,280 195,925 G&T
8-27-53	WASH, 20 COLUMBIA 1953 SEASON	200 127	8,200,000 4,239,167	21,800,630 13,846,247	37.6 30.6	62,304 36,809	250,638 148,373	24.9 24.8	1,637,000
2-14-50	WASH, 28 KITTTAS 1953 SEASON	20 :	502,375 :	4,752,266 :	10.6 :	4,342 :	72,790 :	6.0 :	443,000
6-30-53	WASH, 31 CHELON 1953 SEASON	14 7	84,000 35,509	1,144,020 676,279	7.3 5.3	1,890 862	44,334 28,527	4.3 3.0	271,000
2-11-49	WASH, 32 OKANOGAN 1953 SEASON	34 :	320,572 :	2,567,171 :	12.5 :	3,398 :	48,625 :	7.0 :	225,000
6-9-52	WASH, 35 PENDOREILLE 1953 SEASON	68 32	816,000 153,347	9,631,800 4,871,868	8.5 3.1	19,788 3,417	211,523 117,633	9.4 2.9	1,511,000
10-14-52	WASH, 36 ADAMS 1953 SEASON	263 110	15,378,154 4,982,472	38,735,782 18,059,905	39.7 27.6	123,621 44,817	447,309 249,675	25.9 18.0	3,397,000
6-28-52	WASH, 37 LINCOLN 1953 SEASON	28 22	448,000 1,128,643	14,367,100 11,805,663	3.1 9.6	6,517 8,619	244,792 224,474	2.7 3.8	1,642,000 43,400 G&T
5-10-49	WASH, 39 NESPELEM 1953 SEASON	20 :	278,150 :	5,998,967 :	4.6 :	3,217 :	87,813 :	3.7 :	521,000
6-1-53	WASH, 46 FERRY D.P. 1953 SEASON	34 25	850,000 297,468	17,082,211 9,380,734	5.0 3.2	8,789 5,493	309,177 212,104	2.8 2.6	1,720,000 252,540 G&T
7-1-52	WASH, 47 D. P. 1953 SEASON	429 :	12,870,000 NO BREAKDOWN OF IRRIGATION	72,431,844 :	17.8 :	91,223 :	725,235 :	12.6 :	4,197,000 616,500 G&T

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THE UNIVERSITY OF CHICAGO

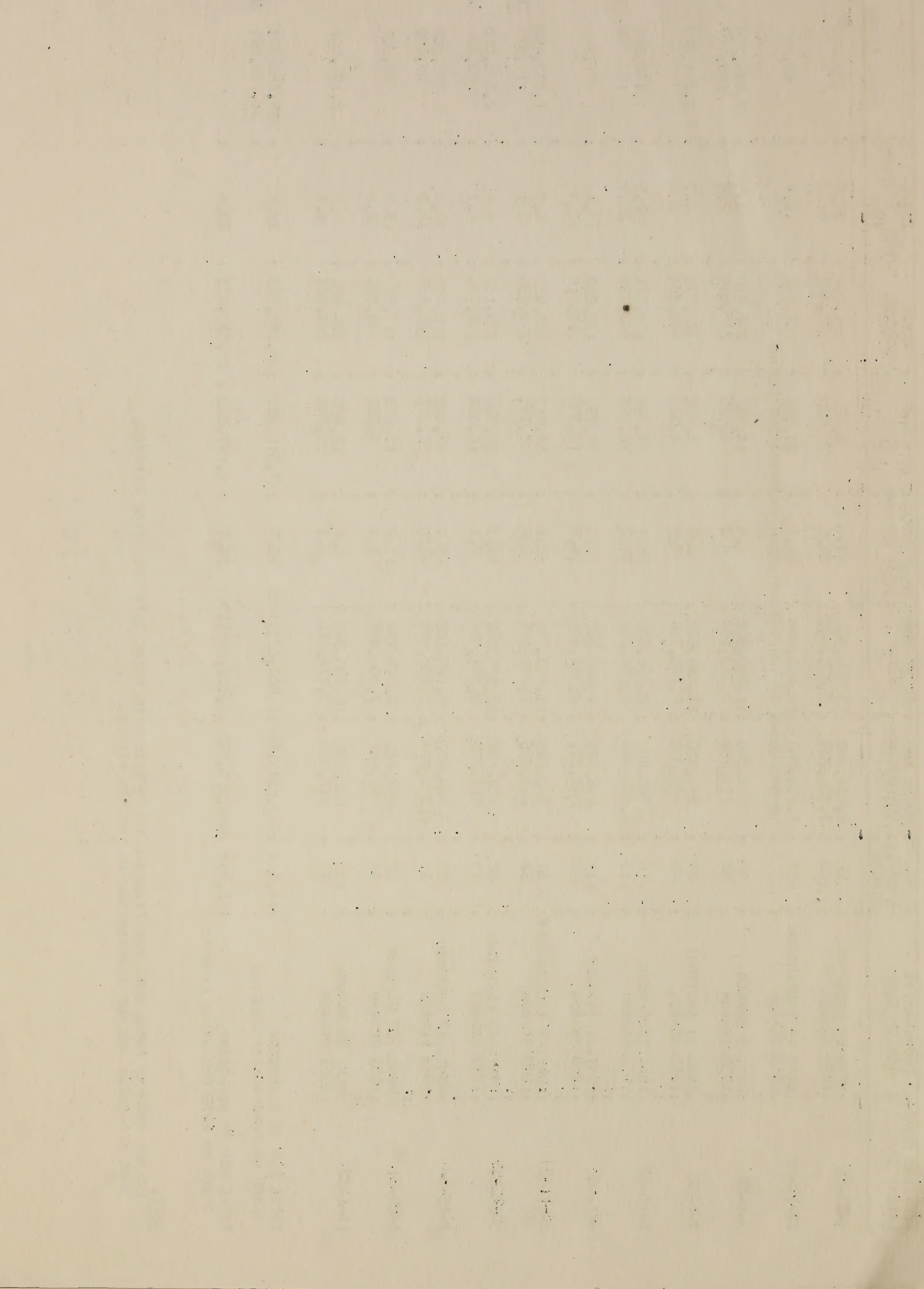
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APPROVED DATE LATEST LOAN	COOPERATIVE DESIGNATION	NO. INSTALLATIONS	TOTAL KWH IRRIGATION	TOTAL KWH SYSTEM	% OF TOTAL USED BY IRR.	REVENUE FROM IRRIGATION	TOTAL REVENUE	% TOTAL FROM IRRIGATION	TOTAL LOANS
5-27-53	UTAH 10 IRON 1953 SEASON	122	2,928,000	3,504,000	83.6	72,224	91,994	78.5	239,000
12-12-49	UTAH 14 WASHINGTON 1953 SEASON	103	3,389,209	3,830,920	88.5	77,530	95,462	81.2	63,000
7-1-52	IDA 4 BONNER 1953 SEASON	50	2,250,000	10,350,586	21.7	31,688	262,148	12.1	2,939,750
7-1-52	IDA 11 KOOTENAI 1953 SEASON	84	476,280	11,706,300	4.1	13,821	398,978	3.5	149,117 G&T
3-16-53	IDA 16 CASSIA 1953 SEASON	56	334,830	7,913,104	4.2	6,025	276,619	2.2	1,211,000
1-21-53	MONT. 1 RAVALLI 1953 SEASON	29	377,000	12,830,620	2.9	5,902	221,773	2.7	1,192,500
6-11-53	MONT. 9 YELLOWSTONE 1953 SEASON	49	485,092	8,245,519	5.9	4,325	166,664	2.6	162,000 G&T
5-25-53	MONT. 13 FLATHEAD 1953 SEASON	118	4,720,000	8,418,800	56.1	74,104	174,431	42.5	871,700
2-25-54	MONT. 17 ROSEBUD 1953 SEASON	113	4,892,666	6,974,268	70.2	72,897	143,736	28.9	1,675,498
6-29-51	MONT. 27 GLASGOW 1953 SEASON	92	832,500	7,081,320	11.8	18,731	133,289	14.1	111,875 G&T
11-1-52	FLA. 26 HARDEE 1953 SEASON	31	372,000	14,463,741	2.6	17,917	355,957	5.0	2,745,000
		33	227,155	9,489,145	2.4	5,795	274,859	2.1	183,000 G&T
		86	1,938,182	16,565,222	11.7	25,724	378,160	6.8	745,000
		45	616,770	8,747,826	7.1	10,000	212,761	4.7	45,000
		33	3,840,000	8,195,190	46.9	47,400	145,495	32.6	935,000
		33	2,373,094	5,650,907	42.0	20,362	105,409	19.3	
		68	642,260	4,045,796	15.9	15,603	117,554	13.3	
		44	91,687	2,669,960	3.4	6,208	93,529	6.6	
		181	633,500	10,305,320	6.1	17,340	359,391	4.8	2,195,000
		95	372,506	5,874,475	6.3	15,785	248,902	6.3	
TOTAL FOR 78 BORROWERS BASED ON FEASIBILITY STUDIES		14,686	447,131,160	1,560,023,148	28.7	7,511,351	36,135,558	20.8	238,653,671 G&T
TOTAL FOR 78 BORROWERS BASED ON 1953 OPERATING REPORTS		12,384	369,315,585	1,080,396,076	34.2	6,197,895	26,537,023	23.4	36,128,621 G&T

NOTE:
DO NOT COMPARE TOTAL DATA FOR FEASIBILITY STUDIES WITH TOTAL DATA OPERATING REPORTS.
SAME BORROWERS ARE NOT REPRESENTED IN THE TWO TOTALS.



APPROVED DATE LATEST LOAN	COOPERATIVE DESIGNATION	NO. INSTALL- ATIONS	TOTAL KWH IRRIGATION	TOTAL KWH SYSTEM	% OF TOTAL USED BY IRRIG	REVENUE FROM IRRIGATION	TOTAL REVENUE	% TOTAL FROM IRRIGATION	TOTAL LOANS
1-15-51	WYO. 6 GOSHEN 1953 SEASON	40 138	1,141,000 1,066,155	8,521,540 6,687,229	13.4 15.9	25,186 21,474	262,722 222,233	9.6 9.7	1,859,600 71,400 G&T
4-3-52	WYO. 14 LARAMIE 1953 SEASON	220 225	4,180,000 3,315,875	15,587,260 14,937,000	26.8 22.2	82,500 74,455	431,083 456,479	19.1 16.3	3,057,000 70,925 G&T
1-17-50	NEB. 1 ROOSEVELT 1953 SEASON	13 38	191,100 257,736	3,102,900 3,561,394	6.2 7.2	3,503 5,820	106,251 97,638	3.3 6.0	547,998
9-18-52	NEB. 49 HOWARD 1953 SEASON	58 27	261,000 302,120	10,775,880 6,458,281	2.4 4.7	11,165 8,655	334,298 195,945	3.3 4.4	1,995,595 185,610 G&T
7-17-51	NEB. 76 SOUTHERN 1953 SEASON	474 534	1,422,000 3,211,182	22,250,754 23,858,594	6.4 13.5	45,030 81,302	703,557 713,916	6.4 11.4	4,037,405
7-10-53	NEB. 78 DAWSON 1953 SEASON	1617 1085	9,702,000 9,714,888	39,484,220 32,202,171	24.6 30.2	293,490 239,329	1,048,209 883,626	30.0 27.1	6,933,234 976,541 G&T
7-3-53	NEB. 83 CUSTER 1953 SEASON	78 41	780,000 725,406	25,625,795 10,732,552	3.1 6.8	27,300 16,309	973,162 473,026	2.8 3.4	7,308,000 566,955 G&T
7-10-53	NEB. 84 GRANT 1953 SEASON	50	900,000	9,287,760	9.7	22,500	371,961	6.1	3,024,000 415,800
2-20-50	NEB. 86 DUNDY 1953 SEASON	63	1,017,951	10,398,880	9.8	22,694	346,539	6.5	2,982,523 357,000 G&T
7-10-53	NEB. 95 CHEYENNE 1953 SEASON	138 33	1,380,000 284,662	24,988,018 11,697,550	5.5 2.4	34,500 6,832	530,724 313,553	6.5 2.2	3,449,000 186,000
3-25-49	NEB. 98 FURNAS D.P.O. 1953 SEASON	50 20	500,000 216,546	8,001,500 5,900,497	6.2 3.7	12,000 6,799	335,542 257,623	3.6 2.6	2,772,000
10-7-52	ORE. 4 LINCOLN 1953 SEASON	146 181	1,591,400 1,315,141	71,757,360 43,989,070	2.2 3.0	30,207 25,476	891,119 669,635	3.4 3.8	5,539,600 326,600 G&T
6-12-50	ORE. 14 UMATILLA 1953 SEASON	20	843,412	16,135,294	5.2	8,292	116,899	7.1	1,173,000 115,000 G&T
11-24-53	ORE. 17 DOUGLAS 1953 SEASON	182 127	2,395,000 771,941	38,672,488 25,821,836	6.2 3.0	34,254 14,994	594,305 424,783	5.8 3.5	2,950,673 252,173 G&T
4-1-52	ORE. 21 COOS 1953 SEASON	69 113	719,325 402,751	31,927,430 25,886,646	2.3 1.6	17,081 9,736	927,320 458,678	1.8 2.1	4,224,000 691,000 G&T

